**Enterococcus faecium**, Strain E0164

Catalog No. NR-31915

For research use only. Not for human use.

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**Manufacturer:**  
BEI Resources

**Product Description:**  
Bacteria Classification: Enterococccaeae, Enterococcus  
Species: Enterococcus faecium  
Strain: E0164 (also referred to as EnGen0010)  
Original Source: Enterococcus faecium (E. faecium), strain E0164 was isolated in 1996 from turkey feces in the Netherlands.\(^1\)  
Comment: E. faecium, strain E0164 is reported to be resistant to gentamicin and vancomycin.\(^1\) The complete genome of E. faecium, strain E0164 has been sequenced (GenBank: AHWJ00000000).

E. faecium is a Gram-positive, facultative, anaerobic coccus that is a commensal inhabitant of the gastrointestinal tract of both humans and animals.\(^2,4\) E. faecium is an emerging and challenging nosocomial pathogen due to its inherent hardness and ability to develop antibiotic resistance.\(^2,4\) Its large open pan-genome allows for horizontal gene transfer between E. faecium and other pathogenic and non-pathogenic bacteria to adapt to changing environments.\(^2,5\) The large majority of strains isolated from nosocomial infections have been classified as CC17, with a distinct genetic lineage characterized by ampicillin resistance and a pathogenicity island carrying the esp gene, which is known to contribute virulence in an animal model.\(^2,5,6\) Two other virulence genes, hyl and acm, have been identified.\(^2\)

**Material Provided:**  
Each vial contains approximately 0.5 mL of bacterial culture in Tryptic Soy broth supplemented with 10% glycerol.

**Note:** If homogeneity is required for your intended use, please purify prior to initiating work.

**Packaging/Storage:**  
NR-31915 was packaged aseptically, in screw-capped plastic cryovials. The product is provided frozen and should be stored at -60°C or colder immediately upon arrival. For long-term storage, the vapor phase of a liquid nitrogen freezer is recommended. Freeze-thaw cycles should be avoided.

**Growth Conditions:**  
**Media:**  
Tryptic Soy broth or Brain Heart Infusion broth or equivalent  
Tryptic Soy agar or Tryptic Soy agar with 5% defibrinated sheep blood or Brain Heart Infusion agar or equivalent

**Incubation:**  
Temperature: 37°C  
Atmosphere: Aerobic (with or without 5% CO\(_2\)) or anaerobic

**Propagation:**  
1. Keep vial frozen until ready for use, then thaw.  
2. Transfer the entire thawed aliquot into a single tube of broth.  
3. Use several drops of the suspension to inoculate an agar slant and/or plate.  
4. Incubate tube, slant and/or plate for 1 day.

**Citation:**  
Acknowledgment for publications should read "The following reagent was obtained through BEI Resources, NIAID, NIH: Enterococcus faecium, Strain E0164, NR-31915."

**Biosafety Level:**  
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References:

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